AMENDMENTS TO THE CLAIMS

The claims in this listing will replace all prior versions, and listings, of claims in the application.

- 1. (Currently Amended) A fixing apparatus comprising:
- a magnetic flux generation section generator that generates magnetic flux;
- a heat-producing element that is induction-heated by the generated magnetic flux;
- a magnetic path forming element that is positioned opposite said heat-producing element and forms a magnetic flux path between said magnetic flux generation section generator and said heat-producing element;
- a magnetism suppressing element that is provided in said magnetic path forming element and, by coming is movable to a masking position that masks at least part of a position, that masks at least part of the magnetic flux path corresponding to a paper non-passage area of said heat-producing element element, between said magnetic path forming element and said heat-producing element, suppresses to suppress magnetic coupling between said magnetic path forming element and said heat-producing element, the magnetic coupling being in a region corresponding to the paper non-passage area; and

a rotation section that by means of rotation causes said magnetism suppressing element to

eeme to rotationally move to the masking position and a-withdrawal position to a withdrawal

position, withdrawn from the masking position,

wherein said magnetic flux generator comprises an exciting coil that extends in a paper passage width direction of said heat-producing element and is wound so as to loop back at both edges of said heat-producing element, and a core that covers said exciting coil; and

said magnetic path forming element comprises a center core located in the center of the windings of said exciting coil.

- 2. (Canceled)
- (Currently Amended) The fixing apparatus according to claim 1, further A fixing apparatus comprising:

a magnetic flux generator that generates magnetic flux;

a heat-producing element that is induction-heated by the generated magnetic flux;

a magnetic path forming element that is positioned opposite said heat-producing element and forms a magnetic flux path between said magnetic flux generator and said heat-producing element;

a magnetism suppressing element that is provided in said magnetic path forming element and is movable to a masking position, that masks at least part of the magnetic flux path corresponding to a paper non-passage area of said heat-producing element, between said magnetic path forming element and said heat-producing element, to suppress magnetic coupling between said magnetic path forming element and said heat-producing element in a region corresponding to the paper non-passage area;

a rotation section that causes said magnetism suppressing element to rotationally move to the masking position and to a withdrawal position, withdrawn from the masking position; and

a rotation section that rotates said magnetic path forming element,

wherein said magnetism suppressing element eemposed of comprises a cutaway part that widens increases a distance between an opposite surface of said magnetic path forming element facing a paper non-passage area of said heat-producing element and said heat-producing element is-formed and is provided in said magnetic path forming element.

 (Currently Amended) The fixing A fixing apparatus according to claim 1, further comprising:

a magnetic flux generator that generates magnetic flux;

a heat-producing element that is induction-heated by the generated magnetic flux:

a magnetic path forming element that is positioned opposite said heat-producing element and forms a magnetic flux path between said magnetic flux generator and said heat-producing element;

a magnetism suppressing element that is provided in said magnetic path forming element and is movable to a masking position, that masks at least part of the magnetic flux path corresponding to a paper non-passage area of said heat-producing element, between said magnetic path forming element and said heat-producing element, to suppress magnetic coupling between said magnetic path forming element and said heat-producing element in a region corresponding to the paper non-passage area;

a rotation section that causes said magnetism suppressing element to rotationally move to the masking position and to a withdrawal position, withdrawn from the masking position; and

a rotation section that rotates said magnetic path forming element,

wherein said magnetism suppressing element eomposed of comprises a stepped part that varies has a width that varies in a rotational-direction width of an opposite surface of said magnetic path forming element facing a paper non-passage area of said heat-producing element is formed and is provided in said magnetic path forming element.

5. (Currently Amended) The fixing apparatus according to claim 1, wherein said magnetism suppressing element is composed of comprises a magnetism masking member formed from an electrical conductor that masks magnetic coupling between said magnetic flux

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generation section generator and said heat-producing element corresponding to a paper nonpassage area of said heat-producing element.

 (Currently Amended) The fixing apparatus according to claim 2, A fixing apparatus comprising:

a magnetic flux generator that generates magnetic flux;

a heat-producing element that is induction-heated by the generated magnetic flux;

a magnetic path forming element that is positioned opposite said heat-producing element and forms a magnetic flux path between said magnetic flux generator and said heat-producing element;

a magnetism suppressing element that is provided in said magnetic path forming element and is movable to a masking position, that masks at least part of the magnetic flux path corresponding to a paper non-passage area of said heat-producing element, between said magnetic path forming element and said heat-producing element, to suppress magnetic coupling between said magnetic path forming element and said heat-producing element, in a region corresponding to the paper non-passage area; and

a rotation section that causes said magnetism suppressing element to rotationally move to the masking position and to a withdrawal position, withdrawn from the masking position,

said magnetic flux generator comprising an exciting coil that extends in a paper passage width direction of said heat-producing element and is wound so as to loop back at both edges of said heat-producing element, and a core that covers said exciting coil; and

said magnetic path forming element comprises a center core located in the center of the windings of said exciting coil,

wherein said core eevering that covers said exciting coil has a bypass path section forming that forms a magnetic flux path so as to circumvent said center core on a side facing said heat-producing element with said center core therebetween.

(Currently Amended) The fixing apparatus according to claim 1, A fixing apparatus comprising;

a magnetic flux generator that generates magnetic flux;

a heat-producing element that is induction-heated by the generated magnetic flux;

a magnetic path forming element that is positioned opposite said heat-producing element and forms a magnetic flux path between said magnetic flux generator and said heat-producing element;

a magnetism suppressing element that is provided in said magnetic path forming element and is movable to a masking position, that masks at least part of the magnetic flux path corresponding to a paper non-passage area of said heat-producing element, between said magnetic path forming element and said heat-producing element, to suppress magnetic coupling between said magnetic path forming element and said heat-producing element, in a region corresponding to the paper non-passage area; and

a rotation section that causes said magnetism suppressing element to rotationally move to the masking position and to a withdrawal position, withdrawn from the masking position,

wherein said magnetism suppressing element is provided on an endless belt suspended rotatably suspended on said magnetic path forming element.

(Currently Amended) The fixing apparatus according to claim 1, wherein A fixing apparatus comprising:

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a magnetic flux generator that generates magnetic flux;

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a heat-producing element that is induction-heated by the generated magnetic flux;

a magnetic path forming element that is positioned opposite said heat-producing element and forms a magnetic flux path between said magnetic flux generator and said heat-producing element:

a magnetism suppressing element that is provided in said magnetic path forming element and is movable to a masking position, that masks at least part of the magnetic flux path corresponding to a paper non-passage area of said heat-producing element, between said magnetic path forming element and said heat-producing element, to suppress magnetic coupling between said magnetic path forming element and said heat-producing element; in a region corresponding to the paper non-passage area; and

a rotation section that causes said magnetism suppressing element to rotationally move to the masking position and to a withdrawal position, withdrawn from the masking position,

said magnetic flux generation section has generator comprises an exciting coil that extends in a paper passage width direction of said heat-producing element and is wound so as to loop back at both edges of said heat-producing element, and a core that covers said exciting coil; and

said magnetic path forming element on which said magnetism suppressing element is provided is emposed comprises of a side core that is provided located on a side part of said exciting coil and transects a magnetic path of said core.

 (Currently Amended) The fixing apparatus according to claim 1, A fixing apparatus comprising:

a magnetic flux generator that generates magnetic flux;

a heat-producing element that is induction-heated by the generated magnetic flux;

a magnetic path forming element that is positioned opposite said heat-producing element and forms a magnetic flux path between said magnetic flux generator and said heat-producing element:

a magnetism suppressing element that is provided in said magnetic path forming element and is movable to a masking position, that masks at least part of the magnetic flux path corresponding to a paper non-passage area of said heat-producing element, between said magnetic path forming element and said heat-producing element, to suppress magnetic coupling between said magnetic path forming element and said heat-producing element; in a region corresponding to the paper non-passage area; and

a rotation section that causes said magnetism suppressing element to rotationally move to the masking position and to a withdrawal position, withdrawn from the masking position,

wherein said magnetic flux generation section is provided outside generator is provided $\underline{\text{externally of}} \text{ said heat-producing element.}$

10. (Currently Amended) The fixing apparatus according to claim 1, A fixing apparatus comprising:

a magnetic flux generator that generates magnetic flux;

a heat-producing element that is induction-heated by the generated magnetic flux;

a magnetic path forming element that is positioned opposite said heat-producing element and forms a magnetic flux path between said magnetic flux generator and said heat-producing element;

a magnetism suppressing element that is provided in said magnetic path forming element and is movable to a masking position, that masks at least part of the magnetic flux path corresponding to a paper non-passage area of said heat-producing element, between said

magnetic path forming element and said heat-producing element, to suppress magnetic coupling between said magnetic path forming element and said heat-producing element; in a region corresponding to the paper non-passage area; and

a rotation section that causes said magnetism suppressing element to rotationally move to the masking position and to a withdrawal position, withdrawn from the masking position,

wherein said magnetic flux generation section generator comprises:

an exciting coil that extends in a paper passage width direction of said heat-producing element and is wound so as to loop back at both edges of said heat-producing element;

a core that covers said exciting coil; and

a leakage magnetism masking member that is provided between said exciting coil and said core, and masks leakage flux that reaches said heat-producing element from said core via said exciting coil.

(Currently Amended) The fixing apparatus—according to claim 10; A fixing apparatus comprising:

a magnetic flux generator that generates magnetic flux;

a heat-producing element that is induction-heated by the generated magnetic flux;

a magnetic path forming element that is positioned opposite said heat-producing element and forms a magnetic flux path between said magnetic flux generator and said heat-producing element;

a magnetism suppressing element that is provided in said magnetic path forming element
and is movable to a masking position, that masks at least part of the magnetic flux path
corresponding to a paper non-passage area of said heat-producing element, between said
magnetic path forming element and said heat-producing element, to suppress magnetic coupling

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between said magnetic path forming element and said heat-producing element, in a region corresponding to the paper non-passage area;

a rotation section that causes said magnetism suppressing element to rotationally move to the masking position and to a withdrawal position, withdrawn from the masking position, an exciting coil that extends in a paper passage width direction of said heat-producing element

and is wound so as to loop back at both edges of said heat-producing element;

a core that covers said exciting coil; and

a leakage magnetism masking member that is provided between said exciting coil and said core, and masks leakage flux that reaches said heat-producing element from said core via said exciting coil.

wherein a rotational-direction width width, in the rotational-direction, of said heatproducing element of said leakage magnetism masking member is narrower than a rotationaldirection width width, in the rotational direction, of said heat-producing element of the exciting coil.

- (Currently Amended) The fixing apparatus according to claim 1, wherein said heatproducing element is made of comprises magnetic material.
- (Original) An image forming apparatus comprising the fixing apparatus according to claim 1.
- 14. (New) The fixing apparatus according to claim 1, wherein said core that covers said exciting coil has a bypass path section that forms a magnetic flux path so as to circumvent said center core on a side facing said heat-producing element with said center core therebetween.

- 15. (New) The fixing apparatus according to claim 3, wherein said core that covers said exciting coil has a bypass path section that forms a magnetic flux path so as to circumvent said center core on a side facing said heat-producing element with said center core therebetween.
- 16. (New) The fixing apparatus according to claim 4, wherein said core that covers said exciting coil has a bypass path section that forms a magnetic flux path so as to circumvent said center core on a side facing said heat-producing element with said center core therebetween.
- 17. (New) The fixing apparatus according to claim 3, an image forming apparatus comprising the fixing apparatus.
- 18. (New) The fixing apparatus according to claim 4, an image forming apparatus comprising the fixing apparatus.
- 19. (New) The fixing apparatus according to claim 6, an image forming apparatus comprising the fixing apparatus.
- 20. (New) The fixing apparatus according to claim 1, said magnetism suppressing element being movable to define to at least two masking positions that mask paper non-passage areas of different widths.
- 21. (New) The fixing apparatus according to claim 3, said magnetism suppressing element being movable to define to at least two masking positions that mask paper non-passage areas of different widths.